

ENFORCER EV-Y2501-A2WWQ 12 mm Varifocal Turret Camera Instruction Manual

ENFORCER®

4-in-1 HD Cameras with WDR
On-Screen Display Manual



EV-Y2501-AMWWQ shown

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EV-Y2501-A2WWQ 12 mm Varifocal Turret Camera

Model	Lens	Resolution	Voltage	Style	Color
EV-Y2501-A2WWQ	2.8mm	5MP	12VDC	Turret	White
EV-Y2501-AMWWQ	2.8-12 mm				
EV-Y1501-A2WWQ	2.8mm			Bullet	
EV-Y1501-AMWWQ	2.8-12 mm				

Programmable Features

- **True Wide Dynamic Range (WDR) –** Provides clear images even under circumstances where backlight illumination can vary
- **Multiple Output Formats –** Can select between multiple different formats: AHD, CVI, TVI, and CVBS
- **Exposure –** Adjustable exposure settings, including brightness, and exposure modes.
- **Back Light Compensation (BLC) –** Adjusts the exposure to properly display the subject in front of bright light sources



WDR Off



WDR On



BLC Off



BLC On



DNR Off



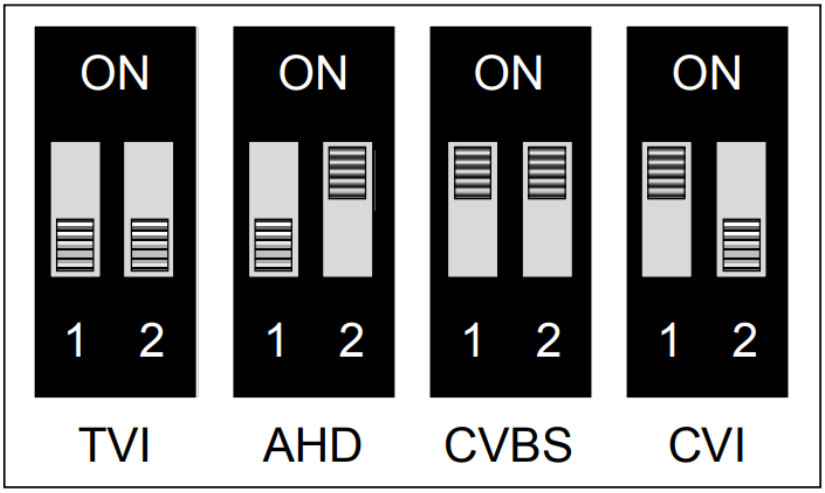
DNR On

- **White Balance –** Adjusts the picture's color temperature/image color
- **Day & Night** – Adjusts the level of ambient light that triggers the camera to switch between color and B/W modes
- **Digital Noise Reduction (DNR)** – Adjusts for less interference on the screen in an area with low illumination

NOTE: All screen images in this manual are simulated.

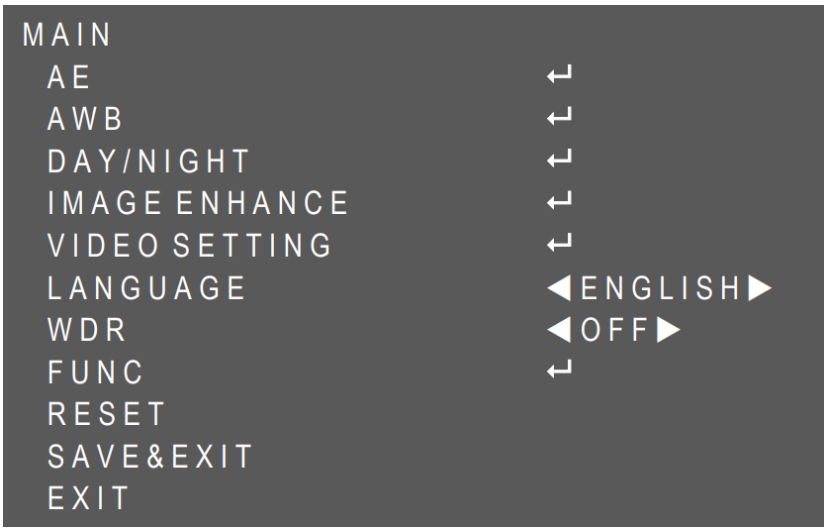
OSD DIP Switch

Set the Format via the OSD DIP Switch (located on the camera), move the DIP Switches to the following combinations. The format selected will determine the settings shown on the On-Screen Display Menu.



Format	Dip Switch 1	DIP Switch 2
TVI (Default)	OFF	OFF
AHD	OFF	ON
CVBS (Analog)	ON	ON
CVI	ON	OFF

Main Menu



NOTE: An ↵ indicates that a submenu is available.

Menu Diagram

Main Menu	Setting	Setting Options
AE	Brightness	1~100 (Default: 36)
	BLC	0~7 (Default: 4)
	Global	—

AWB Mode	Pro	R Gain: 0~100 (Default: 50) B Gain: 0~100 (Default: 50)
	Grayworld	R Gain: 0~100 (Default: 50) B Gain: 0~100 (Default: 50)
Day Night	Ext	—
	B/W	—
	Color	—
Image Enhance	Contrast	Auto, Manual: 0~20 (Default:6)
	Sharpness	Auto, Manual: 0~20 (Default:3)
	Saturate	Auto, Manual: 0~20 (Default:10)
	3DNR	Auto, Manual: 0~20 (Default:6)
	2DNR	Auto, Manual: 0~20 (Default:19)
	Flip	On, Off (Default Off)
	Mirror	On, Off (Default Off)
Video Setting	TVI	5MP 20FPS, 4MP 30FPS, 4MP 25FPS, 1080P 30FPS, 1080P 25 FPS
	CVBS	NTSC, PAL
	AHD	5MP 20FPS, 4MP 30FPS, 4MP 25FPS, 1080P 30FPS, 1080P 25FPS
	CVI	4MP 30FPS, 4MP 25FPS, 1080P 30FPS, 1080P 25FPS
Language		ENG/ CH1/CH2/ ITA/ RUS/ POR/ POL/ JAP/ KOR/ FRE
WDR		On, Off (Default Off)
Func > Privacy	Mode	On, Off (Default Off)
	Arena 0~3	Set privacy zone
	Color	Black, red, green, blue
	Transparency	On, Off (default Off)

Reset……
Save & Exit……
Exit……..

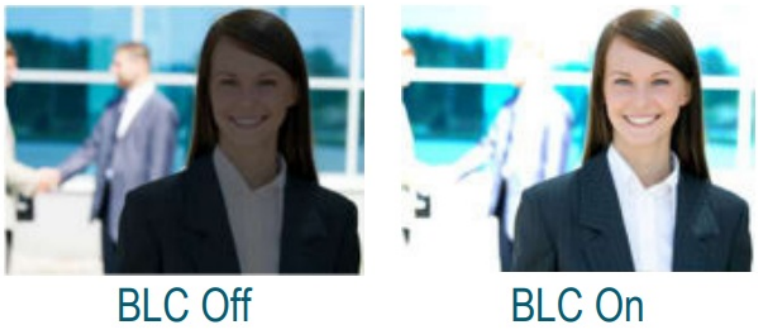
Exposure

This function is used to select the camera's exposure settings, including brightness, and exposure modes: Global and BLC.

1. Select Auto Exposure "AE" on the Main Menu screen.
2. Select the desired Exposure operation.





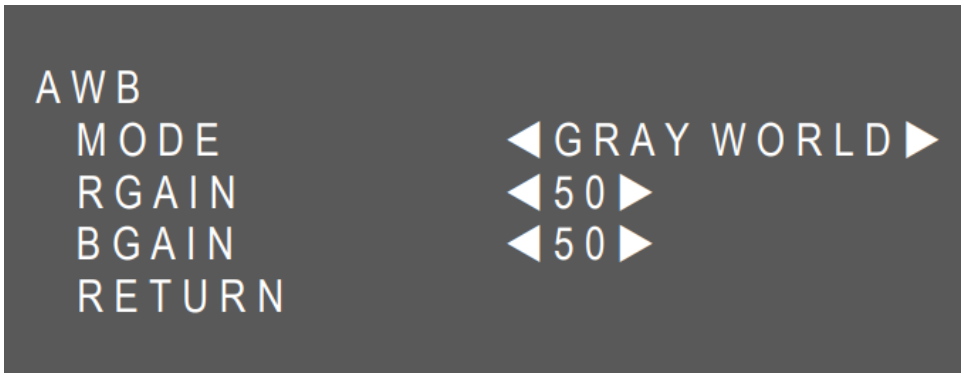


- BRIGHTNESS – Adjust the camera's brightness from 1~100 (Default: 36).
- Exposure Mode:
  - GLOBAL – Choose to automatically adjust light level based on environment.
  - BACKLIGHT (BLC) – Choose to allow the camera to automatically control the light level to overcome strong backlight conditions. Select Back Light Compensation (BLC) to correct the exposure of the subjects that are in front of a strong backlight. Enter the menu to adjust settings.
- LEVEL – Adjust the BLC level from 0~7 (Default: 4).
- RETURN – Return to the MAIN MENU screen.

Auto White Balance (AWB)

This function is used to adjust the color temperature and image color of the picture.

1. Select AWB on the Main Menu screen.
2. Select the desired White Balance operation3. Adjust the settings.



- **Mode:**
  - PRO – Select MANUAL to manually adjust the blue and red color temperature values for the area.
- RGAIN – Set the red gain value. Adjust from 0~100 (Default: 50).
- BGAIN – Set the blue gain value. Adjust from 0~100 (Default: 50).
  - GRAY WORLD – This function adjusts the white balance to gray rather than white resulting in better exposure based on the environment.
- RGAIN – Set the red gain value. Adjust from 0~100 (Default: 50).
- BGAIN – Set the blue gain value. Adjust from 0~100 (Default: 50).
- RETURN – Return to the MAIN MENU screen.

Day and Night

This function is used to adjust the transition between color and black & white modes automatically based on the current lighting conditions.

1. Select DAY / NIGHT on the Main Menu screen.
2. Select the desired mode.



- Mode
  - EXT – Select External (EXT) mode to automatically switch between Color and B/W modes by using the integrated IR CDS sensor.
  - COLOR – Select COLOR to force the camera to display in color mode at all times.
  - B/W – Select B/W to force the camera to display in B/W mode at all times.
- RETURN – Return to the MAIN MENU screen.

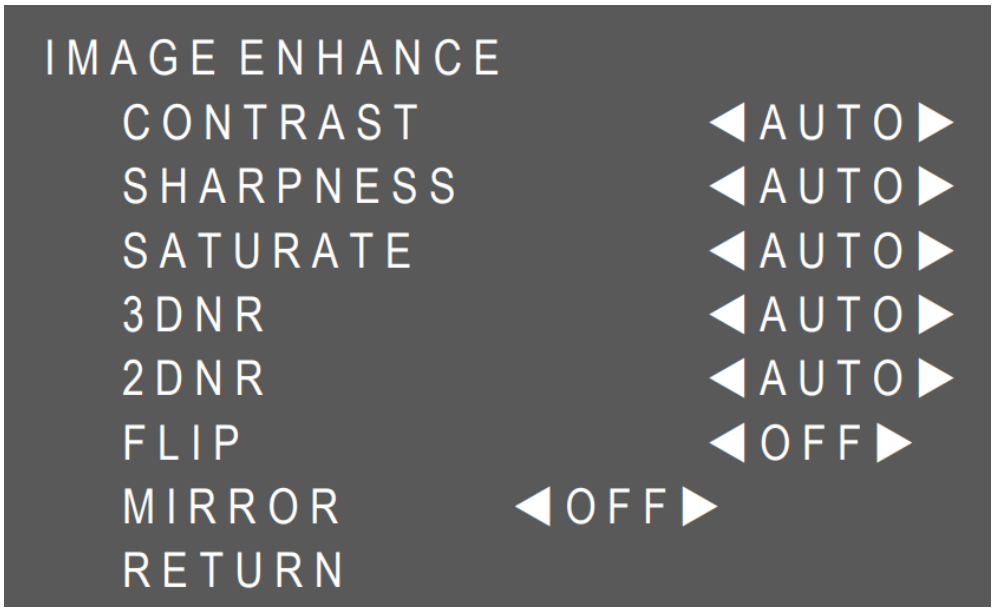
NOTE: If DAY & NIGHT is set to B/W then WHITE BAL is not available.

Image Enhance

This function accesses the video image to enhance functions such as contrast, sharpness, saturation, 3DNR, 2DNR, flip, and mirror.

1. Select IMAGE ENHANCE on the Main Menu screen.
2. Select the desired menu operation.
3. Adjust the settings.

- CONTRAST – Adjust the difference between the lightest and darkest parts of an image or video stream.
  - AUTO
  - MANUAL – 0~20 (Default: 6).
- SHARPNESS – Adjust to increase the contrast of edges in a video or image.
  - AUTO
  - MANUAL – 0~20 (Default: 3).



- **SATURATE** – This function is used to increase or decrease the amount of color hue within the frame.
  o **AUTO**
  o **Manual** – Adjust from 0~20 (Default: 10).
- **3DNR** – Select 3D Digital Noise Reduction (3DNR) for general lighting conditions. Higher levels of DNR will decrease the noise in the image but also potentially affect the sharpness.



DNR Off



DNR On

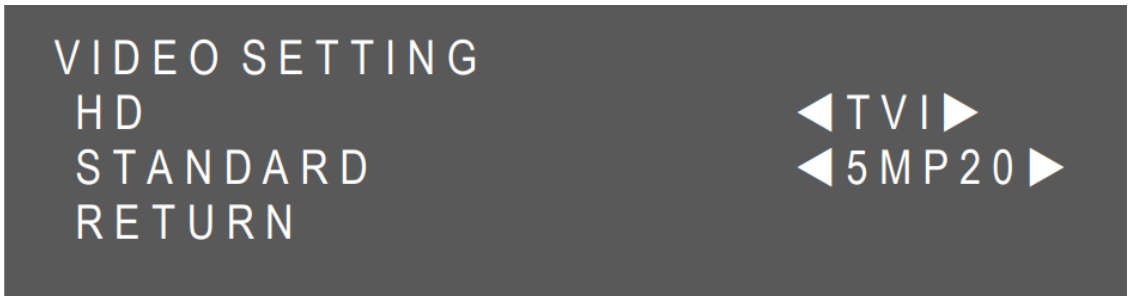
    - **AUTO**
    - **MANUAL:** Adjust from 0~20 (Default: 6).
- **2DNR** – Select 2D Digital Noise Reduction (2DNR) for low lighting conditions. Higher levels of DNR will decrease the noise in the image but also potentially increase after images.
    - AUTO
    - MANUAL: Adjust from 0~20 (Default: 19).
- **FLIP** – Select ON (Default: OFF) to flip the display vertically.
- **MIRROR** – Select ON (Default: OFF) to flip the display horizontally.
- **RETURN** – Return to the MAIN MENU screen.

Video Setting

This function is used to change the Video Output and Video Standards.

1. Select VIDEO SETTING on the Main Menu screen.
2. Select the desired operation.

-



HD

- **TVI**

- **STANDARD –** 5MP 20FPS. 4MP 30/25FPS,1080p 30/25FPS (Default: 5MP 20FPS)
- **AHD**
- **STANDARD –** 5MP 20FPS. 4MP 30/25FPS, 1080p 30/25FPS (Default: 5MP 20FPS)
  - CVI
- **STANDARD –** 4MP 30/25FPS, 1080p 30/25FPS (Default: 4MP 30FPS)
  - **CVBS**
- **STANDARD** – NTSC, PAL (Default: NTSC)

Language

Set the desired OSD menu language. Select from English, Chinese1 (Simplified), Chinese2 (Traditional), Russian, Spanish, French, Polish, Italian, Portuguese, Japanese, or Korean.

WDR

WDR provides clear images even under circumstances where backlight illumination can vary.



WDR Off



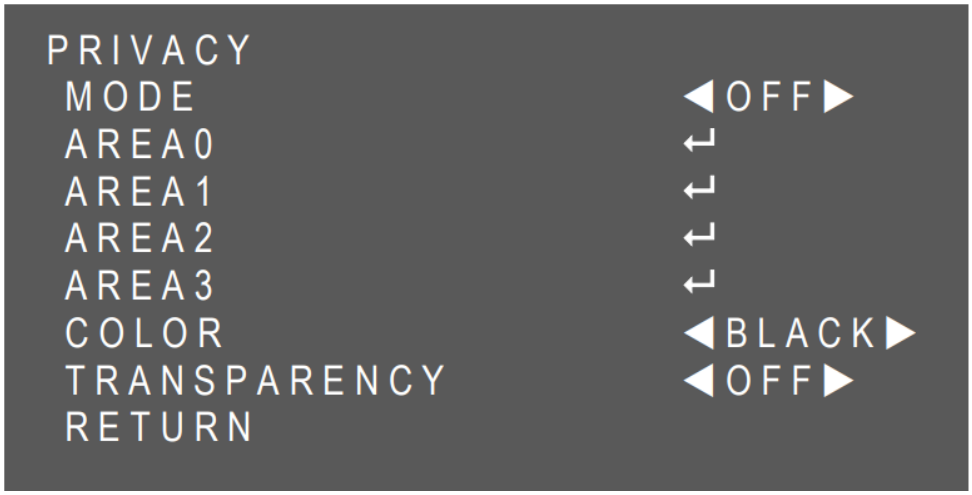
WDR On

WDR – ON/OFF (Default: ON)

Privacy
This function is used to create privacy zones on the display.

1. Select FUNC on the Main Menu screen.
2. Select PRIVACY.
3. Select the desired operation.





- MODE – Select ON/OFF.
- AREA (0~3) – Can activate up to 4 zones on the display.
  - o DISPLAY– ON/OFF (Default: OFF)
  - o XPOSITION START – 0~100 (Default: 0)
  - o YPOSITION START – 0~100 (Default: 0)
  - o WIDTH – 0~100 (Default: 28)
  - o HEIGHT– 0~100 (Default: 39)
- COLOR – Choose between Black, Red, Green, or Blue (Default: Black).
- TRANSPARENCY – Select ON/OFF (Default: OFF).
- RETURN – Return to MAIN MENU screen.

Exit

- RESET – Restore all OSD settings to factory defaults and exit the OSD menu.
- SAVE & END – Save all OSD changes and exit the OSD menu.
- EXIT– Exit the OSD menu without saving any changes.

FCC COMPLIANCE STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device. IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes. **IMPORTANT:** Users and installers of this product are

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California Proposition 65 Warning: These products may contain chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.
WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for one (1) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.
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Documents / Resources

	ENFORCER EV-Y2501-A2WWQ 12 mm Varifocal Turret Camera [pdf] Instruction Manual EV-Y2501-A2WWQ 12 mm Varifocal Turret Camera, EV-Y2501-A2WWQ, 12 mm Varifocal Turret Camera, Varifocal Turret Camera, Turret Camera

References

- La Armería de Madrid - fabricantes de armas y rifles
- P65Warnings.ca.gov
- SECO-LARM USA Inc
- User Manual

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